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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/084,567	02/27/2002	Yanchun Zhao	CA920010020US1	7960
25259	7590	05/01/2007		
IBM CORPORATION 3039 CORNWALLIS RD. DEPT. T81 / B503, PO BOX 12195 REASEARCH TRIANGLE PARK, NC 27709			EXAMINER PATEL, NIRAV B	
			ART UNIT 2135	PAPER NUMBER

SHORTENED STATUTORY PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE
3 MONTHS	05/01/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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Office Action Summary	Application No. 10/084,567	Applicant(s) ZHAO ET AL.	
	Examiner Nirav Patel	Art Unit 2135	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 March 2007 (RCE).
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-6,8-15,18-22 and 24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 4-6, 8-15, 18-22 and 24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Applicant's submission for RCE filed on March 28, 2007 has been entered.
2. Claims 1, 2, 4-6, 8-15, 18-22 and 24 are pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 5, 9, 13, 14, 21, 22 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Riemers (US Patent No. 6,615,242) and in view of Hurst et al (US Patent No. 6,996,845).

As per claim 1, Riemers teaches:

intercepting said message before any content of said message is processed by said server [Fig.1], the message including the information for constructing the query that includes information entered by a user directly incorporated therein [Fig. 1, col. 2 lines 30-31]; examining said message to determine if it contains one or more unauthorized elements [Fig. 1, col. 2 lines 31-37, col. 3 lines 1-13], the examining comprising: receiving an identification of an execution program set to be used to process said message received [col. 3 lines 13-20, Fig. 1]; retrieving an identification of message

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associated with said execution program set [col. 3 lines 25-39, 56-67]; examining said message received by said server [Fig. 1, col. 3 lines 56-67, col. 4 lines 1-13]; determining if said message received by said server contains an unauthorized element in relation to the corresponding message type for said message received; if it is determined that said message contains an unauthorized element preventing said message received from being processed by said server; if it is determined that said message does not contain an unauthorized element allowing said message received to be processed by said server [Fig. 1, col. 5 lines 20-27].

Riemers teaches retrieving the URLs in the message and scoring the message based upon the predetermined strings in the messages [col. 4 lines 14-18, col. 5 lines 1-15]. Riemers doesn't expressively mention that retrieving an identification of all message types associated with said execution program set.

Hurst teaches retrieving an identification of all message types associated with said execution program set [col. 3 lines 62-67, col. 4 lines 1-13, 17-36]; examining said message received by said server in relation to said message types associated with said execution program set [col. 3 lines 62-67, col. 4 lines 1-13, col. 6 lines 10-49]. Further, Hurst teaches the information for constructing the query that includes information entered by a user directly incorporated therein [col. 7 lines 5-12].

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Hurst with Riemers, since one would have been motivated to provide computer security and prevent the attack in computer network [Hurst, col. 1 lines 8-10, col. 2 line 4].

As per claim 5, it encompasses limitations that are similar to limitations of claim 1. Thus, it is rejected with the same rationale applied against claim 1 above.

As per claim 9, the rejection of claim 8 is incorporated and further Riemers teaches: if it is determined that said message received does not contain an unauthorized element, allowing said message received to be processed by said serve [col. 5 lines 20-23].

As per claim 13, it is an apparatus claim corresponds to a method claim 1 and is rejected for the same reason set forth in the rejection of claim 1 above.

As per claim 14, the rejection of claim 13 is incorporated and Riemers teaches: network server comprises an Internet network server and said message is received over the Internet by said server from a user [Fig. 1].

As per claim 21, the rejection of claim 1 is incorporated and Riemers teaches: the message types are chosen from the group consisting of: single token; *string*; multiple tokens without keywords: OR, UNION and SEMI-COLON; multiple tokens without keywords: UNION and SEMI-COLON; multiple tokens without keywords: SEMI-COLON; and multiple tokens without restriction [col. 3 lines 18-24].

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Further, Hurst teaches the message types are chosen from the group consisting of: single token; *string*.... [col. 4 lines 3-36, col. 6 lines 11-49].

As per claim 22, the rejection of claim 5 is incorporated and is rejected for the same reason set forth in the rejection of claim 21 above.

As per claim 24, the rejection of claim 1 is incorporated and Riemers teaches the message including the information for constructing the query that includes information entered by a user directly incorporated therein [Fig. 1, col. 3 lines 1-2, 19-24].

Hurst teaches the query includes an entirety of the information entered by the user [col. 7 lines 5-12].

4. Claims 2, 4, 6, 8 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Riemers (US Patent No. 6,615,242) in view of Hurst et al (US Patent No. 6,996,845) and in view of Tarbotton et al (US Patent No. 6,757,830).

As per claim 2, the rejection of claim 1 is incorporated and Riemers teaches if it is determined that said message received contains an unauthorized element, preventing said message received from being processed by said server, and causing an error notification to be sent [col. 5 lines 23-33]. Riemers doesn't expressively mention an error notification to be sent to said user.

Tarbotton teaches an error notification to be sent to said user [col. 6 lines 49-53].

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Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Tarbotton with Riemers and Hurst, since one would have been motivated to provide message anti-virus computer systems for scanning the received messages to detect the unauthorized content [Tarbotton, col. 1 lines 31-33].

As per claim 4, the rejection of claim 1 is incorporated and is rejected for the same reason set forth in the rejection of claim 2 above.

As per claim 6, the rejection of claim 5 is incorporated and is rejected for the same reason set forth in the rejection of claim 2 above.

As per claim 8, the rejection of claim 5 is incorporated and is rejected for the same reason set forth in the rejection of claim 2 above.

As per claim 15, the rejection of claim 13 is incorporated and is rejected for the same reason set forth in the rejection of claim 2 above.

5. Claims 10-12 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Riemers (US Patent No. 6,615,242) in view of Hurst et al (US Patent No. 6,996,845) and in view of Van Andel et al (US Patent No. 6,314,456).

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As per claim 10, the rejection of claim 1 is incorporated and Van Andel teaches the message comprising a name value pair [col. 4 lines 5-8].

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Van Andel with Riemers and Hurst, since one would have been motivated to provide computer security and prevent the attack in computer network [Hurst, col. 1 lines 8-10, col. 2 line 4].

As per claim 11, the rejection of claim 10 is incorporated and further Riemers teaches: said element comprises one or more of the following items: an instruction, a command, a character, a parameter, a token, or a *string* of any of said previous items [col. 3 lines 56-58, col. 4 lines 14-18].

As per claim 12, the rejection of claim 11 is incorporated and further Hurst teaches: said element is interpretable as an instruction or command by said server [col. 7 lines 9-12].

As per claim 18, the rejection of claim 13 is incorporated and Van Andel teaches: said message comprises a name-value pair and said element is contained by said name-value pair [col. 4 lines 5-18].

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As per claim 19, the rejection of claim 18 is incorporated and it is an apparatus claim corresponds to a method claim 11 and is rejected for the same reason set forth in the rejection of claim 11 above.

As per claim 20, the rejection of claim 19 is incorporated and it is an apparatus claim corresponds to a method claim 12 and is rejected for the same reason set forth in the rejection of claim 12 above.

Response to Amendment

6. Applicant has amended claims 1, 5 and 13 which necessitated new ground of rejection. See rejection above.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Annau et al (US 6804662) --- Method and apparatus for query and analysis

Ratanaraj et al (US 6185567) --- Authenticated access to Internet based research and data services

Jammes et al (US 6484149) --- System and method for viewing product information, and methods for generating web pages.

Brandow et al (US 6938041) --- Java-based data access object

Reshef et al (US 6584569) --- System for determining web application vulnerabilities

Li et al (US 6591266) --- System and method for intelligent caching and refresh of dynamically generated and static web content

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nirav Patel whose telephone number is 571-272-5936. The examiner can normally be reached on 8 am - 4:30 pm (M-F).

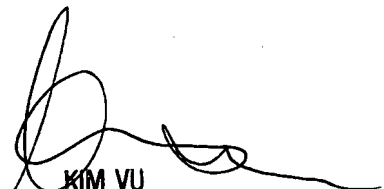
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NBP

4/24/07



KIM VU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2135

Notice of References Cited	Application/Control No. 10/084,567		Applicant(s)/Patent Under Reexamination ZHAO ET AL.	
	Examiner Nirav Patel		Art Unit 2135	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,615,242	09-2003	Riemers, Bill C.	709/206
*	B	US-6,996,845	02-2006	Hurst et al.	726/25
*	C	US-6,314,456	11-2001	Van Andel et al.	709/218
*	D	US-6,804,662	10-2004	Annau et al.	707/2
*	E	US-6,938,041	08-2005	Brandow et al.	707/10
*	F	US-6,185,567	02-2001	Ratnaraj et al.	707/10
*	G	US-6,584,569	06-2003	Reshef et al.	726/25
*	H	US-6,591,266	07-2003	Li et al.	707/10
*	I	US-6,484,149	11-2002	Jammes et al.	705/26
*	J	US-6,345,300	02-2002	Bakshi et al.	709/229
*	K	US-6,848,000	01-2005	Reynolds, William Robert	709/226
*	L	US-5,787,436	07-1998	Blackman et al.	707/103R
*	M	US-6,721,721	04-2004	Bates et al.	707/1

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
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	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.